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NOTICE OF ALLOWANCE AND FEE(S) DUE

30623 7590 12/03/2010

MINTZ, LEVIN, COHN, FERRIS, GLOVSKY AND POPEO, P.C. ONE FINANCIAL CENTER BOSTON, MA 02111

EXAMINER			
ALSTRUM ACEVEDO, JAMES HENRY			
ART UNIT	PAPER NUMBER		
1616	•		

DATE MAILED: 12/03/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,626	11/26/2003	Daniel Pratt	19043-501	9707

TITLE OF INVENTION: BUOYANT POLYMER PARTICLES FOR DELIVERY OF THERAPEUTIC AGENTS TO THE CENTRAL NERVOUS

SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/03/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	correspondence including ad below or directed off	or tran	smitting the ISSU Patent, advance or in Block 1, by (a	ders and notification a) specifying a new o	of r	naintenance fees w pondence address;	ill be and/or	nailed to the current (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDE	ENCE ADDRESS (Note: Use B	ock 1 for	any change of address)		Note Feet pape have	e: A certificate of (s) Transmittal. Thi ers. Each additional e its own certificate	mailing is certif I paper of mai	can only be used fo cate cannot be used for such as an assignment ling or transmission.	r domestic mailings of the or any other accompanying nt or formal drawing, must
MINTZ, LEVII ONE FINANCIA BOSTON, MA	7590 12/03 N, COHN, FERR AL CENTER)2111		LOVSKY AN	ND POPEO, P.C	I he Stat addi tran	Cerreby certify that the es Postal Service was essed to the Mail smitted to the USP	tificate is Fee(s vith suf Stop TO (57	of Mailing or Transı) Transmittal is being ficient postage for firs (SSUE FEE address 1) 273-2885, on the di	nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
									(Depositor's name)
									(Signature)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/723,626	11/26/2003			Daniel Pratt				19043-501	9707
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nonprovisional	YES		\$755	\$300		\$0		\$1055	03/03/2011
EXAM	INER		ART UNIT	CLASS-SUBCLASS	3]			
ALSTRUM ACEVEL	OO, JAMES HENRY		1616	424-489000		•			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignee is ident h in 37 CFR 3.11. Comp	nge of "Indicated. Use	Correspondence ation form e of a Customer E PRINTED ON T	(I) the names of u or agents OR, alter (2) the name of a registered attorney 2 registered patent listed, no name will THE PATENT (print of	ip to native single or atto Il be or type he p	e firm (having as a agent) and the name meys or agents. If a printed. be) atent. If an assigna assignment.	memb es of u no nam	er a 2o to be to 3entified below, the de	ocument has been filed for
Please check the appropri	iate assignee category or	catego	ries (will not be pr	inted on the patent):		Individual 🚨 Co	rporati	on or other private gro	up entity 🚨 Government
4a. The following fee(s) are submitted: Issue Fee Acheck is enclosed. Advance Order - # of Copies Advance Order - #					ficiency, or credit any				
	s SMALL ENTITY state	ıs. See	37 CFR 1.27.					TTY status. See 37 CF	
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	d from anyone other the Office.	han t	he applicant; a regi	stered :	ttorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
Typed or printed name						Registration N			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.3 U.S.C. USPT rden, sl D NOT	11. The informatic 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR O	on is required to obtain 1.14. This collection in depending upon the in the Chief Information On COMPLETED FORM	or nor not sent to the sent to	etain a benefit by the imated to take 12 reidual case. Any co er, U.S. Patent and D'THIS ADDRESS	he publ minutes mment Traden i. SENI	ic which is to file (and to complete, includin s on the amount of tir ark Office, U.S. Depa O TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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ONE FINANCIAL			ART UNIT	PAPER NUMBER			
BOSTON, MA 02111			1616				
		DATE MAILED: 12/03/2010					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/723,626	PRATT ET AL.				
Notice of Allowability	Examiner	Art Unit				
	JAMES H. ALSTRUM ACEVEDO	1616				
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-83) NOTICE OF ALLOWABILITY is NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to and MPEP 1308.	olication. If not include will be mailed in due	ed course. THIS			
 This communication is responsive to <u>an after final respons</u> 	e filed on 11//2010.					
2. The allowed claim(s) is/are 46, 55, 60, 59, 61-63, 67, 56-5	7, 64, 58, and 65-66 [now claims 1-1	<u>41</u> .				
3.	been received. been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. iited. Note the attached EXAMINER as reason(s) why the oath or declara st be submitted. on's Patent Drawing Review (PTO s Amendment / Comment or in the C . 84(c)) should be written or the drawine he header according to 37 CFR 1.121(c) st of BIOLOGICAL MATERIAL r st of BIOLOGICAL MATERIAL r	complying with the recomplying attached.	quirements IOTICE OF			
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 3/29/04 4. Examinate Comment Regarding Requirement for Deposit- of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendr	(PTO-413), e nent/Comment	.wance			
or biological iviaterial	9. Other	9. Other				
/James H Alstrum-Acevedo/ Examiner, Art Unit 1616	11/28/10					

Art Unit: 1616

Information Disclosure Statement (IDS)

Reference C6 on the IDS submitted on March 29, 2004 did not included a date. A corrected signed, dated, and initialed copy of this IDS, wherein the date of the C6 reference has been added is included with this communication.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the prior art does not teach or fairly suggest the preparation and administration of therapeutic compositions comprising biodegradable polymer particles containing therein a therapeutic agent in combination with a buoyancy agent comprising a hydrofluorocarbon. Applicants' after-final amendments have cancelled previously finally rejected claims 22-30, 40-45, 47-50, and 52-54. Claims 46 and 55-67, which were previously indicated to recite allowable subject matter. The closest prior art reference is Soon-Shiong et al. (U.S. Patent No. 5,560,933) ("Soon-Shiong"), but Soon-Shiong does not teach or fairly suggest the intrathecal administration of bio-compatible microparticles that comprise a hydrofluorocarbon buoyancy agent. The only components disclosed in Soon-Shiong that could be considered to be buoyancy agents are vegetable oils (e.g. soybean oil) and vitamin E. None of the secondary references relied upon in the prior art are suggestive of making biocompatible microparticles comprising a hydrocarbon. Thus, for the aforementioned reasons claims 46 and 55-67 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue Art Unit: 1616

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James H. Alstrum-Acevedo whose telephone number is (571)

272-5548. The examiner can normally be reached on M-F, ~10:00-6:00 and Saturdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Johann Richter can be reached on (571) 272-0646. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/James H Alstrum-Acevedo/ Patent Examiner, Art Unit 1616 Technology Center 1600 J.H. Alstrum-Acevedo, Ph.D.